

# **Miniature PCB Relay RE**

- 1 pole 6 A, 1 form A (NO) contact
- Sensitive coil 200 mW
- 4 kV coil-contact
- Optimized height 10.6mm
- PCB area 200mm<sup>2</sup>
- Wash tight
- Product in accordance to IEC 60335-1 (domestic appliances)



### Typical applications

PLC's, timers, temperature control, I/O cards, white goods.

Approvals
VDE Cert. No. 40010578, UL E214025
Technical data of approved types on request.

Contact Data		
Contact arrangement	1 form A (NO)	
Rated voltage	250VAC	
Max. switching voltage	400VAC	
Rated current	6A	
Limiting making current, max 4s, duty factor	r 10% 15A	
Breaking capacity max.	1500VA	
Contact material	AgNi 90/10	
Frequency of operation, with/without load	360/72000 ops./h	
Operate/release time max.	10/5ms	
Bounce time max.	4ms	
Contact ratings		

- 1			
Bounce t	time max.	4ms	
Contact	ratings		
Туре	Contact	Load	Cycles
IEC 618	10		
RE034	A (NO)	6A, 250VAC, cosφ=1, 70°C	100x10 <sup>3</sup>
UL61810	0-1 (UL 508	)	
RE034	A (NO)	6A, 250VAC, general purpose, 70°C	100x10 <sup>3</sup>
RE034	A (NO)	B300 pilot duty 40°C	6x10 <sup>3</sup>
RE034	A (NO)	6A, 30VDC, general purpose, 70°C	100x10 <sup>3</sup>
Mechani	cal enduran	ce >30x10 <sup>6</sup> ops.	

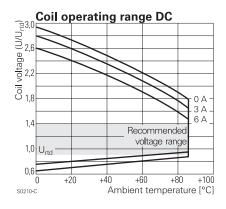
Max	. DC load breaking capacity	Electrical endurance
300		<u>8</u> 10 <sup>7</sup>
200		8 10 <sup>2</sup> 250VAC resistive load
100		106
	resistive load	AgNi90/10
_ 50	<del></del>	
§ 40		105
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50 40 30 30 20 10		104
0,1 0,		0 1 2 3 4 5 6 7 8
S0196-D	DC current [A]	Soiles-B Switching current [A

Coil Data		
Coil voltage range	5 to 48 VDC	
Operative range, IEC 61810	2	
Coil insulation system according UL1446	F	

Coil vers	sions, DC co	il			
Coil	Rated	Operate	Release	Coil	Rated coil
code	voltage	voltage	voltage	resistance	power
	VDC	VDC	VDC	$\Omega \pm 10\%^{1)}$	mW
5	5	3.5	0.5	125	200
6	6	4.2	0.6	180	200
9	9	6.3	0.9	405	200
12	12	8.4	1.2	720	200
18	18	12.6	1.8	1620	200
24	24	16.8	2.4	28801)	200
48	48	33.6	4.8	11520 <sup>1)</sup>	200

<sup>1)</sup> Coil resistance ±15%.

All figures are given for coil without pre-energization, at ambient temperature +23°C. Other coil voltages on request.



Insulation Data	
Initial dielectric strength	
between open contacts	1000V <sub>ms</sub>
between contact and coil	4000V <sub>ms</sub>
Initial insulation resistance	mo
open contact circuit	$>10x10^{9}\Omega$
coil-contact circuit	$>10x10^{9}\Omega$
Clearance/creepage	
between contact and coil	≥4/4mm
Material group of insulation parts	IIIa
Tracking index of relay base	PTI250V



## Miniature PCB Relay RE (Continued)

**Other Data** 

Material compliance: EU RoHS/ELV, China RoHS, REACH, Halogen content refer to the Product Compliance Support Center at

 $\underline{www.te.com/customersupport/rohssupportcenter}$ according EN 60335, par.30

Resistance to heat and fire Ambient temperature -40 to +70°C -40 to +85°C at 4A

Category of environmental protection

IEC 61810 RTIII - wash tight

Vibration resistance (functional) 10g Terminal type PCB-THT

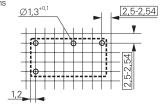
Resistance to soldering heat THT

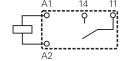
IEC 60068-2-20 260°C/5s

Packaging/unit tube/25 pcs., box/500 pcs.

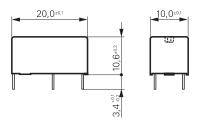
### PCB layout / terminal assignment

Bottom view on solder pins





#### **Dimensions**



Product code structure	Typical product code	RE	0	3	4	012
Type  RE Miniature PCB Relay RE						
Version 0 Wash tight			J			
Contact Configuration 3 form A (NO) contact						
Contact material 5 AgNi 90/10 gold plated 4 AgNi 90/10						

Coil

Coil code: please refer to coil versions table

Product code	Version	Contacts	Contact material	Coil	Part Number
RE034005	wash tight	NO contacts	AgNi 90/10	5 VDC	2-1416010-3
RE034006	wash tight	NO contacts	AgNi 90/10	6 VDC	2-1416010-4
RE034009	wash tight	NO contacts	AgNi 90/10	9 VDC	2-1416010-5
RE034012	wash tight	NO contacts	AgNi 90/10	12 VDC	2-1416010-6
RE034018	wash tight	NO contacts	AgNi 90/10	18 VDC	3-1416010-2
RE034021	wash tight	NO contacts	AgNi 90/10	21 VDC	1956220-7
RE034024	wash tight	NO contacts	AgNi 90/10	24 VDC	2-1416010-7
RE035005	wash tight	NO contacts	AgNi 90/10 gold plated	5 VDC	1956226-3
RE035006	wash tight	NO contacts	AgNi 90/10 gold plated	6 VDC	1956226-5
RE035009	wash tight	NO contacts	AgNi 90/10 gold plated	9 VDC	1956226-7
RE035012	wash tight	NO contacts	AgNi 90/10 gold plated	12 VDC	1956226-1
RE035018	wash tight	NO contacts	AgNi 90/10 gold plated	18 VDC	1956226-9
RE035021	wash tight	NO contacts	AgNi 90/10 gold plated	21 VDC	1-1956226-1
RE035024	wash tight	NO contacts	AgNi 90/10 gold plated	24 VDC	1956226-2
RE035048	wash tight	NO contacts	AgNi 90/10 gold plated	48 VDC	1-1956226-3